University of Toronto Engineering Society

the CANNON

SKULE SPIRIT ISSUE

September 5, 1979 Volume II Number 1

Engineering's New Dean

On July 1, 1979, Professor Gordon R. Slemon assumed the position of Dean of the Faculty of Applied Science and Engineering, taking over from Bernard Etkin who had resigned after six years in office. Early into his term, Dean Slemon met with the editors of the CANNON to discuss his concerns and plans for the Faculty during the forthcoming seven years.

As a longtime member of the University of Toronto engineering community, Dean Slemon is well acquainted with the Faculty's concerns and problems. He received his Bachelor's and Master's degrees in Applied Science here, before going on to receive his PhD from the University of London. Dean Slemon has held a teaching position with tbe Department of Electrical Engineering since 1955. Dean Slemon displayed bis managerial prowess from 1966 to 1976, wben he held the chairmansbip of the Electrical Department.

The incoming dean has made numerous contributions to electrical engineering tbrougb his research and publications. He has coautbored two textbooks: **Scientific Basis of Electrical Engineering** (witb UofT president James M. Ham and **Magnetoelectric Devices, Electric Machines** (with A.R. Straughen). Dean Slemon also has over fifty scientific publications to his credit to date.

During our discussion with tbe Dean, we touched on many vital issues concerning the Faculty and the discipline of engineering in general.

The new dean foresees that his major problem will be attempting to cope with budgetary restraints and cutbacks. Witb a 3% cut in budget annually, he feels that it may be difficult for tbe Faculty to branch out and diversify. Metaphorically, the Dean compared tbe Faculty to a tree which is baving its branches cut while attempting to grow.

Gordon R. Slemon
New Dean of Engineering

To combat this problem, Dean Slemon feels tbat the Faculty must look for ways to "build up other businesses and diversify its sources of income". An inevitable result will be to make the student pay a larger percentage of his/her tuition to compensate for the money no longer coming from the government. He feels that, in the near future, grad students or their employers will have to pay the total cost of their educations. Another source of income would be from increased contributions from alumni and otber businesses.

Dean Slemon feels that the bulk of the financial deficit will be made up from contract researcb within the Faculty. Even though this type of research now brings in millions of dollars in revenue, Professor Slemon feels that his work will bave to be expanded if the Faculty is to continue to grow.

Another issue touched upon during our conversation was that of the image whicb engineers present among students as well as the general public.

The dean feels that tbere exists an image problem with respect to women in engineering. Even though their number is rising, Dean Slemon feels that, relative to other countries (even lesser-developed ones), the number of women entering engineering in Canada is not rising quickly enough. The dean feels that this is in part due to the antics in which students oftentimes participate — activities not particularly conducive to female involvement. The greater part of tbe problem, he feels, is in tbe preconditioning which prospective students receive in high school. Dean Slemon feels that what is most needed to combat this image would be a behavioural change in engineering students.

The dean also showed concern for the image of engineers in the face of their changing roles in society. Dean Slemon feels that the real challenge to engineering no longer lies solely in the design aspect, but in cases where there is much

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Parting Words From Dean Etkin

Bernard Etkin officially left his post as Dean of the Faculty of Applied Science and Engineering after completing six years of a seven year term. Dean Etkin graciously submitted to an interview with the CANNON to discuss his future plans and what his major accomplishments and concerns over the past six years have been.

Dean Etkin spoke with great fondness about these last six years and that despite the many drawbacks being in a responsible position, he doesn't regret for one minute having been being Dean.

Before becoming Dean, prior to 1972, there was a one term system in which twelve to thirteen courses were taken simultaneously, with exams weighted 100%, and with extremely limited course selections. In 1967 a committee was established to investigate a new two term system with more electives and marked term work.

Dean Etkin spoke with great excitement about this new system and that his major accomplishment as Dean was the implementation and review of the programme. Getting it to work took many man-hours. The key to its working was a computerized system, which Dean Etkin says, "works like a clock".

Dean Etkin says that although the technical and scientific side of the programme and the staff are first-class compared with anything anywhere, the humanity and social science side of the programme is not up to its full potential. He said, "It is a sad fact that as many as sixty to seventy percent of tbe students are not motivated to become 'educated'." He went on to say that people were not motivated due to psychological and traditional factors and that engineering students were generally not philosophy orientated or interested in linguistic skills. He believes that it will be a major challenge and concern for Dean Slemon to find a way of motivating these students.

During his next year of sabatical he will be staying close to the university, catching up on his academic and research work and involving himself in projects in which he has taken an interest. He will also be taking out some time to travel to England and Israel.

by Susan Samuels

Dean Slemon

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public concern. Here, the engineer must make himself/berself credible to tbe public—"A design is no longer just the technical facts; now it is more important to gather social and environmental factors".

Until now, engineers have often had to forego future considerations for their employer's more immediate wants and concerns, this oftentimes led to a lack of confidence in engineers in the public sector. To alleviate this problem, Dean Slemon feels that engineers must become better acquainted with and more sensitive to society's value system. "Tbe engineer, in making a design decision, must investigate fully all pros and cons in order ot find tbe good compromises between the many alternatives".

The last topic of discussion centered on possible curriculum changes in order for University of Toronto graduates to be able to take prominent positiuns in future engineering roles.

Dean Slemon believes the Faculty is lacking in what he calls, 'Canadian Independant Engineering Studies'. He feels that emphasis should be placed upon moving technology out of the university and into Canadian industry. Prospective courses would include studies in design innovation, management, and business beyond the tecbnical aspects. With courses in this vein, one would be developing the image of tbe "engineer as entrepreneur" or the "employer as opposed to employee". Dean Slemon feels that, with these changes, engineering graduates could take on an active role in building up Canadian industry as opposed to foreign owned branch plants.

The new dean also sbowed concern with the selection of non-technical electives. As non-techs comprise 12.5% of the students' curricula, the Dean feels that they can play an integral part in education if used effectively. The smorgasbord approach now utilized is not the correct path to follow, he feels. Rather than having the Engineering Faculty attempt to blend in witb Arts Faculties, courses specially designed for engineers should be introduced. Possible courses he foresees would deal with how to interpret society's values, changes in technology and other sociology related courses. To be effective, these courses must centre in on where the engineer fits into the scheme of things. Dean Slemon feels that these types of courses would improve the engineers' image and allow tbem to take part in business affairs.

We at the CANNON would like to take this opportunity to thank Dean Slemon for taking the time to talk with us and we wish him success during his term in office.

by Dana Stonkus

EDITOR'S COMMENTS

It's amazing how much one can learn in a mere twenty bours. After spending almost four months planning 'Our First CANNON' Sue and I were faced with tbe dubious pleasure of laying out our first issue. We never believed it could be so nerve wracking, time consuming and yet gratifying.

We had started out thinking that the task which lay before us would not be that difficult. After all, the Engineering Society Executive had all but prescribed what was to go in the first issue contentwise. We never considered not having enougb material to fill the journal. Needless to say, this should have been an area of concern. The deadline for article submissions had come and gone and only two articles had been received (considering that both were from the Electrical Department and the editor is in electrical this was not very promising). Within a week or so though, many more 'fashionably late' articles bad been recieved. We had overcome our first hurdle.

Needless to say, when we were finally ready to face the real test — The Layout — we were both quite anxious. Although we may bave lost some sanity along tbe way, this roadblock was also overcome. This is largely due to a couple of extremely 'Skule Spirited' engineers wbo I suppose, remembering their 'novice' days as editors, agreed to help us. They have proved to be invaluable teachers. They're still both bere — even though it's now 5 a.m. — and I cannot imagine how Sue and I could have done our first layout without their help.

I suppose the point of this article is to bring across the message that one need not be knowledgeable or skilled to take on tasks within the Society. Tbe CANNON and even the TOIKE are meant to provide at least semi-enjoyable reading. Their success depends soley on student input, regardless of whether it be in tbe way of articles, helping out in darkroom or in one of many other tasks. In the end you too will appreciate the opportunities open to you in terms of getting 'involved'.

Drop in the office sometime. You'll always be welcome.

The Spirit Boss Wants You!!!

Yes, you! Every Joe Skule has a place in the Blue and Gold Commlttee. This committee is what Engineering is all about. You will not graduate unless you leave all the necessary stamps on your Blue and Gold Committee membership card. So join early and don't be left out.

This committee is composed of three basic groups. The most popular of these is the Lady Godiva Memorial Band. You will get into all University activities for free. This is an internationally renowned band which offers its members a written guarantee that no artsies will develop.

If you are interested in career-oriented activities tben you belong in the BFC. The Brute Force Committee, which does not exist, never has existed, and never will exist, is looking for individuals interested in manure manuvering and having a great time. All Engineers (after initiation) are members of the BFC and are thus eligible to participate in all capers.

TERMS OF EMPLOYMENT IN THE BFC:

- this has absolutely nothing to do with Mario's Bakery.
- project locations throughout all parts of the University
- on-the-job training available, or use our learn-as-you-pillage plan.

If so far you still feel left out, then be part of Skule Nite. This is the annual Engineering variety show where you will get the chance to act, sing, and dance your heart out. If publicity is not your cup of beer, you can still be part of the stage crew, making sets and props that make this show possible.

If you still feel left out, then you are a NERD and don't deserve to be an Engineer, unless you are an avid participant in tbe Slave Auctions and the Chariot Race and drink more than a case (24 bottles) of beer a day, in which case you will not live long enough to become an Engineer.

Presenting SAC

For quite a few years now, Joe Skule and a few of the boys (and, of course, girls) from Skule have been getting together to make a bit of noise at SAC. No, you silly F!rosb, not to paint the dome — although they do do that once in a while — but to keep on top of the ins and outs of the SAC. Well, for tbe sake of all you ignorant F!rosh — You tbere. wipe your nose! — the following hypothetical interview (in which the questions are asked, as always, by the F!rosb) sbould banish the clutter from your potential minds.

Q. What is the SAC?

A. You poor, dumb F! SAC (or the SAC) is an acronym for the Students' Administrative Council. SAC is housed in tbe Old Observatory Building, which is guarded by those two old cannon which point towards Queen's Park, in front of Hart House.

Q. So SAC is a Student Council. But so is tbe Eng. Soc. What's the difference?

A. SAC has representatives from all the undergraduate schools, colleges, and faculties at UofT on it. The Eng. Soc. is a council just for the undergraduates in the Faculty of Applied Science and Engineering.

Q. So who are the council reps at Sac?

A. Well, tbe Student representatives on the SAC Board of Directors —

Q. Board of Directors?

A. Shut up, F!rosh! Don't interrupt me when I'm talking!

Q. I'm sorry.

A. You will be... As I was saying before I was thoughtlessly interrupted, tbe Sac is actually a corporation. Students at UofT are the "shareholders" and pay fees to belong to the SAC. Each constituency (college, faculty, or school) elects a number of directors, based on the number of students in the constituency, and these students become members of tbe Board of Directors. The directors then become members of one or more commissions or committees, which are responsible for certain student-related areas. There is also an Executive Committee, wbich generally keeps SAC functioning smoothly, and runs the commissions and committees — Close your mouth, F!rosh — This year there are six directors who represent Engineering on the Board: Viken Aharonian, Alison Bradbury, Richard Chase, Michael Nettleton, Parvez Patel, and Rob Yates. These six directors are collectively involved in the whole spectrum of SAC activities.

Q. But what does SAC do for me?

A. I'm glad you asked that question, even though you are a rude, ignorant F!rosh. SAC is involved in all facets of student life, both at the activities level, and behind-the-scenes. Tangibly, SAC offers: Dr. John's, a Friday night pub with live bands, every week, in the U.C. Refectory; Ski Days, a program run in the winter for students to get away to the slopes; the SAC Free Films, a program of first-rate, and absolutely free, films sbown on Saturday nights in the Medical Sciences Auditorium; concerts in Convocation Hall and Massey Hall which UofT students may purchase discounted tickets for; and tbere are many otber activities throughout the year. Administratively, SAC deals witb the University administration, national student groups, and all three levels of government. In the long run, the bebind-the-scenes activity ultimately offers tangible results; an example is the issue of access to academic records: as a result of student lobbying, all undergraduate students at UofT are now allowed to examine their student records, if they so request in writing. Some current administrative issues include the proposed Campus Centre, which would be a central lounge facility for students, and accessibility, which is a student demand that all tbose academically eligible for university should not be denied access to university because of financial reasons.

by Mike Nettleton

Mechanical Club

This year will surpass any previous year. The Mech Club has planned events whicb will put any other club to shame. Events sucb as the Mech Dinner, Career Night and the ever-popular Nick Night will return better tban ever because Mech 8T0 has the greatest spirit of any engineering class.

With super support from 2nd and 3rd year, Mech will conquer all. The Cbariot Race will again be the Battleground to determine engineering supremacy and Mecb will be there again.

The Civil Club

The Civil Club is a group of Civil upperclassmen who organize events primarily for Civil students. Even thougb you dumb Civil F!rosh aren't really in a separate class yet, we want you to feel free to attend Civil club events. After all, you'll be the turkeys running them in a year or two so you might just as well find out what is going on now. Information about tbese events, i.e. places, dates, and times can be had outside the Civil Club office GB 138.

Some of the events in tbe planning stage are: Smokers with Civil related speakers, a MICE pub, and a nite of music with Cliff Erickson. A tour of Molsons has already been booked, bowever this is full. A field trip for upperclassmen (women) is also being considered. Once again tbe Civil Club will be bosting a hockey tournament for the Civil classes. A pub for Civil F!rosb is being planned, where the Civil F!rosh will have an opportunity to meet tbe Profs and enjoy a little free beer. And last but not least, the Civil dinner is being planned for the spring (I know you are not supposed to start a sentence with "and", but give me a break, it is getting late).

THE ELECTRICAL HALF PAGE THE ELECTRICAL HALF PAGE

The I.E.E.E. Promotes Professionalism

The student cbapter of tbe I.E.E.E. (Institute of Electrical and Electronics Engineers) at tbe University of Toronto bas experienced an increase in the size of its membersbip during the past two years, and the executive committee is expanding the list of activities for members in order to consolidate and continue tbis growtb.

To describe tbe size and scope of the parent organization in this limited space would be difficult indeed. The I.E.E.E. has Groups and Societies concerned witb virtually every aspect of Electrical Engineering, from Quantum Electronics to Power, ranging in scope from a particular tbeoretical result to a broad application or managerial treatise. Tbese Groups and Societies appeal not only to tbe formal Electrical Engineering Community, but also to specialists in otber fields such as Computers, Pbysics, Cbemistry, Materials Science, Matbematics, Industrial Engineering, Management, and others. Each of tbese Groups or Societies publishes journals and the I.E.E.E. has survey periodicals (sucb as Spectrum) whicb cover tbe wbole field of EE. These periodicals are exceptional values both in financial terms (only $3 for students) and in terms of professional growth.

For an interesting (if not unpredictable) article on tbe correlation between success in tbe profession and pursuit of the literature, the reader is referred to tbe September 1978 issue of Spectrum.

Meanwbile, otber benefits originate from tbe student chapter itself. Aside from the obvious opportunity to meet with professionals and other students in a cordial and informal manner at meetings, the student chapter offered to its members:

-A Careers Nigbt, to enable students to investigate various opportunities related to tbeir course of studies.

-An opportunity to attend the Conference on Computers, Electronics, and Control '78 beld in Toronto, as a representative of the chapter.

-A microprocessor course, consisting of lectures and practical experience with a kit based on tbe RCA 1802 Microprocessor. Due to its success, this course is being repeated this Fall.

-Films and discussions on various technical topics, including an introduction to the Computer Research Facility.

-Financial support for worthy projects, sucb as a tecbnical paper competition and the Electrical Grad dinner.

In tbe near future tbe student cbapter plans to offer:

-A microprocessor related design competition, open to all, but especially to tbe microcourse participants.

-A general electronics workshop and reading room, including a full complement of electronic test equipment and most of tbe current literature publisbed by the I.E.E.E.

-A general EE design competition.

-A continuing series of speakers on various tecbnical and general topics of interest to EE's.

The chapter president, Andrey Jagielo, personally extends bis invitation to all interested people in tbe University community to find out more by contacting tbeir class representatives. Membership information is also available in GB 204, and at $10 yearly (includes suhscription to Spectrum), this is one investment a serious student and aspiring professional Engineer shouldn't ignore.

The Electrical Club

Every undergraduate student in the Electrical Department is a member of tbe Electrical Club. It is up to him/ber to become an active memher and enjoy tbe benefits of 'belonging'.

Contrary to popular belief, the major goal of tbe Electrical Club is not to provide its members with imbibables at a cbeap price (tbe cbeap drunk probahly runs as its third or fourth goal). The Club is meant to act as a vehicle through which one can meet profs and fellow students, bave a good time, and, suprisingly enough, learn something in the process.

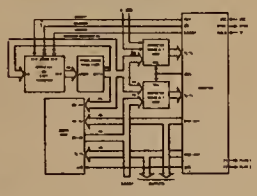
The Electrical Club runs frequent smokers, wbere students of all years can get togetber witb profs and each other and converse in a setting sligbtly less restricting than an office or classroom. The Club also gives its members the chance to show off their athletic skills. Planned for this coming year, we have football, bockey and volleyball tournaments. Most importantly, one doesn't have to he a gold medalist to come out — it's amazing bow much better you become after a few beers.

Our activities culminate in Marcb witb the Annual Electrical Club dinner. Again we provide an amicable setting in which one can meet with friends and have a good time. We end the evening with tbe presentation of 'gifts' to some of the profs for heing sucb 'good shits'.

A substantial part of one's education takes part outside of tbe classroom. By taking an active part in extracurricular 'Skule' activities, one can assure oneself of getting the most out of university.

The Electrical Club bas not yet finalized all of its plans for the coming scbool year. If you have any suggestions or wisb to come out and belp, you are more than welcome. We'll be holding our first meeting at 5 o'clock on Tuesday, Septemher 11tb, in Metro Library, Rm. 330.

Hope to see you tbere.



Chemical Club

There are a number of events planned for the coming year by the Chemical Engineering Club. The first few activities are:

- Football Tournament Sunday, Septemher 23
- First Smoker Wednesday, September 26
- Soccer Tournament Sunday, October 7
- Fall Dinner and Dance TBA (end of Oct. - begin'g of Nov.)

Announcement of all events planned during tbe year will be posted in tbe Wallberg Building.

Come on out for a good time!

the CANNON

978-5377

Editor:
Ms. Dana Stonkus

Assistant Editor:
Ms. Susan Samnels

Wfth special thanks to:

Eric Hartwell
Peter Noble

The CANNON is a puhlication of the University of Toronto Engineering Society. It is puhlished to announce EngSoc events, discuss Faculty and educational matters, present technical and Universfty news and to he an open forum for the opinions and interests of memhers of the Faculty. All those who would like to help with the CANNON are most welcome.

Snhmissions to the CANNON are also welcomed. They should he typed. The deadline for snhmission of artfcles for the upcoming Tnesday's CANNON is Thursday at five. EngSoc annooncements mnst he in hy noon Monday. The editor reserves the right to edit letters.

The CANNON office is located in the EngSoc offices: Third Floor, Old Metro Lihrary, 20 St. George St., Unfversity of Toronto, M5S 2E4.

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Geological Club

Welcome Geo's. Congratulations on being a member of one of tbe smallest and friendliest divisions of Engineering. Our size does not reflect our popularity, it merely reflects our selectivity. Where else can you get the advantages the outdoors offer, and get paid for it? "Rocks" may he prominent in our studies, but our Skule spirit still crops througb. By getting involved in tbe Geological Club, (wbich you already are) you can participate in Smokers, Hockey Teams, Arm Wrestling Cbampionships and at tbe year's end, the cluh dinner. Our field trips last about a week or two and good times are had by all. So come out, get involved, and meet the terrific upperclassmen (at least some of them). Any questions or suggestions sbould he directed to the club chairman, Steve Nohle.

Your Geo. Cluh

TINY TOIKE PAGE

Orientation Schedule

Wednesday

12:00 pm — ST. GEORGE ST. PARADE: Nth annual F!rosh and BNAD Parade up St. George St. and through the campus. Please meet at the Engineering caf :teria.

Thursday

1:00 pm — NURSING CAPER (I think that says it all.) Please meet at the Engineering cafeteria.

6:30 pm — FREE BOOZE 'N SEX NIGHT Please meet at the Engineering cafeteria.

Friday

8:00-1:00 am — ROAMAROUND at the Drill Hall (Free for F!rosh) Nursing Engineering starting point.

Saturday

4:00-6:30 pm — PICNIC/DINNER PARTY at the Engineering Stores.

6:30-9:00 pm — SCAVENGER HUNT

9:00-? — TOIKE OIKE Make-up

?-? — SLEEPOVER

Sunday

9:45 am-5:30 pm — HART HOUSE FARM Great Time for all! Beer, Beer, and more Beer!!

YEARBOOK EDITOR WANTED

Yes, the 1979-80 SKULE YEARBOOK needs guidance, and your help will be greatly appreciated.
Whether or not you've done something like this before (it would be nice) there are 4 ways you can help:

- be Editor
- find a friend and be Editor and Assistant Editors
- be Co-editors
- be Section Editors
- you name it (nudge nudge)

Last year's Editor was a F!rosh, so the job can't be that hard. So... cum and talk to our Ella in the stores.

YEARBOOKS FOR SALE

LIMITED OFFER!!
Selected copies of the now out-of-print 1978-79 yearbook SKULE 7T9, are available for purchase in the stores for only TWO dollars. If you bought one last year (thank you) bring your receipt and you'll get yours in the stores!

PSST! HEY F!rosh! WANNA MAKE SOME MONEY?

You too can earn 15% of every ad you sell for the world-famous SKULE YEARBOOK!! Since ads are going for up to $400 or so for a full page, this commission adds up!!!

Calendar Date Corrections

Event	New Date
Women's Wine and Cheese	Wed. Sept. 26 5:00 pm
Oktoberfest	Fri. Oct. 12 8:00 pm
Cannonball	Sat. Jan. 19 8:00 pm
Women's Dinner	Thurs. Feb. 7 6:00 pm
Skule Nite	Feb. 27, 28, 29, Mar. 1 8:00 pm

Fourth Year Committee

This is a reminder to all you Fourth Year types. Your GRAD PHOTOS are being taken during the next two weeks — Sept. 10 to Sept. 21. If you do not get yours taken in this period, forget about it appearing in the 8T0 Yearbook. You might stand a chance of showing up in your class composite if you see me early. Leave your name and number in my mail box in the Eng. Soc. offices.

SHINERAMA
Saturday Sept. 15
9:00 am
King's College Circle

FREE ORGY FOR SHINERS

Career Counselling & Placement Centre

UP-COMING-EVENTS

Engineers - 8T0: Plan to attend -

INTRODUCTORY EMPLOYMENT SEMINARS

Date	Time	Location	Target Group
Mon. Sept. 10	10-11:00	GB 220	Civil
Mon. Sept. 10	11-12:00	GB 248	Mechanical
Tue. Sept. 11	5-6:00	GB 120	Elect./Eng. Sci.
Wed. Sept. 12	11-12:00	GB 120	Geological/Met.
Wed. Sept. 12	1-2:00	GB 248	Industrial
Fri. Sept. 21	9-10:00	Wal 130	Chemical

Undergrads: Summer Jobs:

Similar seminars have been arranged for those engineers in 2nd and 3rd year who will be seeking good summer jobs. Note below the suminar schedule.

Mon. Sept. 17	1-2:00	Wal 324	all disciplines
Tue. Sept. 18	12-1:00	GB 120	" "
Wed. Sept. 19	1-2:00	GB 248	" "
Thur Sept. 20	12-1:00	GB 120	" "

Information seminars will be held for 1st year students in October.

NOTE: If you're planning to avoid the un-employment line you can't afford to miss these seminars! Application deadlines for companies recruiting on-campus are as EARLY AS OCTOBER 4TH.

Contact: Jan Straeter, Coordinator - Employment 978-6315